

In the Specification:

The 7 bit AMI may be encoded using a (12,7) code as described in commonly owned U.S. Patent Application Serial No. 09/517,911, entitled "METHOD AND SYSTEM FOR CODING INFORMATION SEQUENCES WITH UNEQUAL ERROR PROTECTION IN COMMUNICATION SYSTEMS~~Method for Unequal Coding Protection~~" filed concomitantly herewith and, the disclosure of which is hereby incorporated by reference. This code is derived from a (15,11) Hamming code. As an intermediate step, the (15,11) Hamming code may be shortened to an (11,7) code as specified in the IS-136. The (11,7) code is used for encoding the CPE on the IS-136 DCCH; it has a minimum Hamming distance of 3 and guarantees single error correction. However, false error correction, or interpretation of one codeword as another, may occur if 2 or more errors occur in the channel. Two error detecting capability may be provided by increasing the minimum Hamming distance of the code to 4 through the addition of a single parity bit. The resulting (12,7) code may be viewed as an extended (11,7) code.